

## Product datasheet for MR203589

### Tk2 (NM\_021028) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tk2 (NM_021028) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tk2
Synonyms:	AU024611; mt-TK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203589 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTGCGGTGCTGCGTAGTTGGGCTGCCCGGTCCCTGCGTAGCGTGGGCCCGGGAGCTCCGGGA  
GCCCCGGGAGCCTCGATTCGGGCGCCGGGCCGCTGTGGGCACCTCGCCGCGCCTGGCCTCCGATAAAGA  
TAGAGAAAATGATAAGGAGAAAAAGCAGTGGTTTGTATTGAGGGCAATATTGCAAGTGGGAAGACGACA  
TGCTGGAGTTCTTCTCCAATACAACAGACGTCGAGGTGTTAATGGAGCCTGTGCTCAAGTGGAGAAATG  
TCCATGGCCATAACCCTCTGAGCCTCATGTACCATGATGCCAGCCGATGGGGCCTCACACTGCAGACGTA  
CGTGCAGCTCACCATGCTGGACCAGCACACGCGCCCTCAGATGTCACCTGTACGGTTGATGGAAAGGTCA  
ATGTACAGCGCAAGATACATTTTTGTAGAAAACCTGTATAGAAGTGGGAAGATGCCCGAGTTGACTACG  
CGATTCTGTCTGAGTGGTTTACTGGATCGTCAGGAACATTGATGTCTCTGTTGATCTGATAGTTTATCT  
GCGAACCCTCCCGAAATCTGCTACCAGAGATTAAGATGAGGTGCCGGGAAGAGGAGAAAGTCATTCCG  
ATGGAATACCTCCATGCTATTCACCGCCTCTACGAGGAGTGGCTGGTCAACGGGAGCCTCTTCCAGCTG  
CAGCCCCTGTTCTGGTGATTGAGGCTGACCACAACCTGGAGAAAATGTTAGAACTCTTTGAACAAAACCG  
GGCCCCGATATTAACCTCAGAGAACTGGAAGCATGGACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203589 protein sequence  
Red=Cloning site Green=Tags(s)

MLLRSLRSLRWAARSLRSLVSGPGSSGSPGSLDSGAGPLWAPRRAWPPDKDRENDKEKKAVVCIEGNIASGKTT  
 CLEFFSNTTDVEVLMEPVLKWRNVHGHNPLSLMYHDASRWGLTLQTYVQLTMLDQHTRPQMSPVRLMERS  
 MYSARYIFVENLYRSGKMPEVDYAILSEWFDWIVRNIDVSDLVYLRTTPEICYQRLKMRCEEKVIIP  
 MEYLHAIHRLYEEWLVNGSLFPAAPVLVIEADHNLEKMLELFEQNRARILTPENWKHG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_021028

**ORF Size:** 813 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_021028.2](#), [NM\\_021028.3](#), [NP\\_066356.2](#)

**RefSeq Size:** 2400 bp

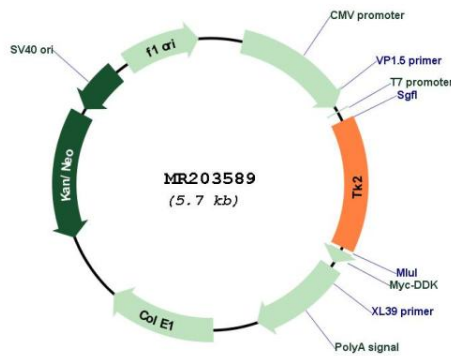
**RefSeq ORF:** 813 bp

**Locus ID:** 57813

**Cytogenetics:** 8 D3

**MW:** 31.3 kDa

**Product images:**



Circular map for MR203589